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(54) REACTION APPARATUS FLUIDIZED LAYER TYPE CATALYTIC GAS

(57)Abstract:

PURPOSE: To carry out gas-solid contact in good efficiency by using a catalyst with reduced pressure loss and a large specific surface area by fluidizing the catalyst with a particle size in a specific range on a porous plate and upto a specific height.

CONSTITUTION: In the fluidized layer type catalytic gas reaction apparatus, a granular catalyst 5 with a particle size of 0.2mmW2mm is held on a porous plate 3 and the layer of the catalyst 5 is fluidized by a gas stream 2 but the height of the formed fluidized layer is adjusted to 300mm or less. In this manner, because the catalyst with a large specific surface area and reduced pressure loss is used and the height of the fluidized layer is low gas-solid reaction efficiency is high, even if the amount of the catalyst to be used is small.

